

Title (en)
RETRACTING DEVICE

Title (de)
EINZUGSVORRICHTUNG

Title (fr)
DISPOSITIF DE RÉTRACTION

Publication
EP 3239445 A4 20180905 (EN)

Application
EP 15872534 A 20151113

Priority
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Abstract (en)
[origin: EP3239445A1] Provided is a retracting device which can decrease a difference of restoring force of a tension coil spring between a retracted position and a stop position. The retracting device of the present invention includes a base 12, a slider 14 which can catch a trigger 8 and move from the stop position to the retracted position with respect to the base 12 and a tension coil spring (B) for relatively moving the slider 14 which has caught the trigger 8 from the stop position to the retracted position with respect to the base 12 to apply force for assisting the closing operation to a sliding door 1. The tension coil spring (B) is an initially-tensioned spring in which a coil closely contacts and which has initial tension in a direction in which the coil closely contacts when it is in a natural length.

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Citation (search report)
• [YD] JP 2009079392 A 20090416 - YOKOZUNA KK
• [Y] MAX NÜSSER ET AL: "Technische Federn - Herstellung und Berechnung", 5 March 2010 (2010-03-05), pages 18 - 19, XP055492535, Retrieved from the Internet <URL:http://www.schmid-federn.de/pdf/Federnfibel.pdf> [retrieved on 20180713]
• See references of WO 2016103965A1

Designated contracting state (EPC)
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